	Application No.	Applicant(s)
Notice of Allowability	10/659,680	SUNDERMANN ET AL.
	Examiner	Art Unit
	Samuel A. Barts	1621
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to amendment filed 11/18/05.		
2. The allowed claim(s) is/are <u>1-32</u> .		
 3.		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☑ Examiner's Amendn	ė

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. J. D Evans on 1/9/2006.

This amendment is directed to correcting the claims in minor details. The changes are as follows:

- 1) In claim 1 the Roman numeral "I" is placed below the formula as oppose to being placed within the formula.
- 2) It was agreed that the word "ring", which was in the patented claims, was more precise than the word "chain". The examiner has deleted the word "chain" in every claim where it existed and replaced it with the original word "ring".
- 3) The compound "3-Amino-3-arylpropan-1-ol" has been renamed to <u>3-amino-3-arylpropan-1-ol</u> to make claim 16 consistent with changes made in claim 1.

Please amend claims as follows:

¹ Claim 1-3, 5-10 and 16

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1. A [3-Amino-3-arylpropan-1-ol] <u>3-amino-3-arylpropan-1-ol</u> compound corresponding to formula I

$$R^3$$
 R^4
 R^2
 R^1
 R^5

I

wherein

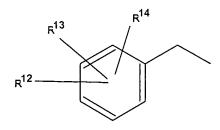
 R^1 and R^2 each independently denote C_{1-6} -alkyl, or R^1 and R^2 together form a $(CH_2)_{2-6}$ ring, which can also be benzo-fused or phenyl-substituted;

R³ denotes H or methyl;

 R^4 and R^5 each independently denote C_{1-6} -alkyl, C_{3-6} -cycloalkyl, phenyl, benzyl, or phenethyl, or R^4 and R^5 together form a $(CH_2)_{3-6}$ or $CH_2CH_2OCH_2CH_2$ ring;

A denotes a substituted or unsubstituted aryl radical, which optionally contains heteroatoms in the ring system;

X denotes a substituted benzyl group corresponding to formula XI



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or a substituted benzoyl group corresponding to formula XII

XII

wherein

 R^{12} to R^{14} each independently denote H, F, Cl, Br, CHF₂, CF₃, [OR¹¹, SR¹¹] <u>OR¹⁵, SR¹⁵</u>, OCF₃, SO₂CH₃, SO₂CF₃, C₁₋₆-alkyl, phenyl, CN, [COOR¹¹] <u>COOR¹⁵</u> or NO₂, where

 $[R^{11}]$ $\underline{R^{15}}$ denotes H, C_{1-6} -alkyl, phenyl, benzyl, or phenethyl; and diastereomers or enantiomers thereof, or a salt thereof with a physiologically acceptable acid.

with the proviso that if R1 and R² together form a (CH₂)₄ ring, R³ is H, A is a substituted phenyl group corresponding to formula XIII

XIII

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in which one of R^6 to R^{10} is OH and the remainder of R^6 to R^{10} are H, and X is a benzyl group corresponding to formula XI in which R^{12} to R^{14} are all H, then R^4 and R^5 are not both C_{1-2} -alkyl.

- 2. A compound according to claim 1, wherein R^1 and R^2 together form a $(CH_2)_6$ ring, which can be benzo-fused or phenyl-substituted.
- 3. A compound according to claim 1, wherein $[R_1]$ \underline{R}^1 and R^2 together form a $(CH_2)_4$ ring which can be benzo-fused or phenyl-substituted.
- 5. A compound according to claim 1, wherein A is a substituted phenyl group corresponding to formula XIII

wherein

R⁶ to R¹⁰ each independently denote H, F, Cl, Br, I, CF₃, OH, OR¹¹, OCF₃, SR¹¹, SO₂CH₃, SO₂CF₃, C₁₋₆-alkyl, phenyl, CN, COOR¹¹ or NO₂, or R⁶ and R⁷ or R⁷ and R⁸ together form an OCH₂O or OCH₂CH₂O ring, and

 R^{11} denotes C_{1-6} -alkyl, phenyl, benzyl, or phenethyl, or a substituted or unsubstituted thiophene radical or furan radical.

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- 6. A compound according to claim 1, wherein R^1 and R^2 together form a $(CH_2)_{2-6}$ ring, which can be benzo-fused or phenyl-substituted, and R^3 denotes hydrogen.
- 7. A compound according to claim 5, wherein R^1 and R^2 together form a $(CH_2)_4$ -ring, which can be benzo-fused or phenyl-substituted, and R^3 represents hydrogen.
- 8. A compound according to claim 5, wherein R^1 and R^2 together form a $(CH_2)_4$ -ring, and R^3 represents hydrogen.
- 9. A compound according to claim 1, [characterized in] wherein R¹ and R² together form a (CH₂)₄ ring, A represents a substituted or unsubstituted thiophene radical, and R³ represents hydrogen.
- 10. A [compounds] <u>compound</u> according to claim 1, wherein R^1 and R^2 together form a $(CH_2)_4$ ring, A represents a substituted or unsubstituted furan radical, and R^3 represents hydrogen.
- 16. A process for preparing a [compound 3-Amino-3-arylpropan-1-ol] <u>3-amino-3-arylpropan-1-ol</u> compound corresponding to formula I

$$R^3$$
 R^2
 R^4
 R^5

Ι

wherein

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 R^1 and R^2 each independently [denote] <u>denotes</u> C_{1-6} -alkyl, or R^1 and R^2 together form a $(CH_2)_{2-6}$ ring, which can also be benzo-fused or phenyl-substituted;

R³ denotes H or methyl;

 R^4 and R^5 each independently [denote] <u>denotes</u> C_{1-6} -alkyl, C_{3-6} -cycloalkyl, phenyl, benzyl, or phenethyl, or R^4 and R^5 together form a $(CH_2)_{3-6}$ ring or $CH_2CH_2OCH_2CH_2$ ring;

A denotes a substituted or unsubstituted aryl radical, which optionally contains heteroatoms in the ring system;

X denotes a substituted benzyl group corresponding to formula XI

or a substituted benzoyl group corresponding to formula XII

XII

wherein

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 R^{12} to R^{14} each independently [denote] <u>denotes</u> H, F, Cl, Br, CHF₂, CF₃, [OR¹¹, SR¹¹] <u>OR¹⁵</u>, $\underline{SR^{15}}$, OCF₃, SO₂CH₃, SO₂CF₃, C₁₋₆-alkyl, phenyl, CN, [COOR¹¹] <u>COOR¹⁵</u> or NO₂, where

 $[R^{11}] \underline{R^{15}}$ denotes H, C_{1-6} -alkyl, phenyl, benzyl, or phenethyl;

said process comprising reacting a Mannich base corresponding to formula

II

wherein R1 to R5 and A have the meanings given above,

with a Grignard compound of formula (H₃C)Y, wherein Y denotes MgCl, MgBr, or MgI, or MeLi, or

with a reducing agent,

to give rise to an alcohol corresponding to formula Id

$$R^3$$
 R^4 R^5

Ιd

wherein R¹ to R⁵ and A have the meanings given above; and

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then reacting said alcohol of formula Id with HalX, wherein Hal is a halogen selected from the group consisting of F, Cl, Br, and I, and X has the meaning given above in the presence of an inorganic or organic base at a temperature in the range from 0° to 150°C; or

then condensing said alcohol of formula Id with XOH at a temperature in the range from 0° to 150°C;

to obtain said compound of formula I.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel A. Barts whose telephone number is 571-272-2870. The examiner can normally be reached on 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

> Samuel A Barts **Primary Examiner**

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